

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/14561

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ H03H11/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H03H11/04, H03H11/12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Kokai Jitsuyo Shinan Koho	1971-2004	Jitsuyo Shinan Toroku Koho	1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 8-191231 A (Sony Corp.), 23 July, 1996 (23.07.96), Par. Nos. [0044] to [0072]; Figs. 1 to 4 & GB 2296835 A & US 5942935 A	1
Y	JP 8-204504 A (Asahi Kasei Microsystems Co., Ltd.), 09 August, 1996 (09.08.96), Par. Nos. [0024] to [0047]; Figs. 1 to 7 (Family: none)	1
Y	JP 2001-203574 A (NEC IC Miconsystem Kabushiki Kaisha), 27 July, 2001 (27.07.01), Par. Nos. [0021] to [0062]; Figs. 1 to 5 (Family: none)	1

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

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Date of the actual completion of the international search
19 March, 2004 (19.03.04)Date of mailing of the international search report
06 April, 2004 (06.04.04)Name and mailing address of the ISA/
Japanese Patent Office

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 3-65812 A (Toshiba Corp.), 20 March, 1991 (20.03.91), Full text; Figs. 1, 2 (Family: none)	1
A	JP 7-86873 A (Toshiba Corp.), 31 March, 1995 (31.03.95), Full text; all drawings & EP 0626795 A2	1
A	JP 5-347537 A (NEC Corp.), 27 December, 1993 (27.12.93), Full text; all drawings & US 5416438 A	1
A	JP 11-177379 A (NEC Corp.), 02 July, 1999 (02.07.99), Full text; all drawings & US 6366161 A	1
A	JP 2002-94357 A (Matsushita Electric Industrial Co., Ltd.), 29 March, 2002 (29.03.02), Full text; all drawings & EP 1172933 A2 & CN 1333597 A & US 2002/0011896 A1	1
A	JP 10-303699 A (Asahi Kasei Microsystems Co., Ltd.), 13 November, 1998 (13.11.98), Full text; all drawings (Family: none)	1